

**Division of Bridges**  
**Office Practice No. 1**

March 11, 2005

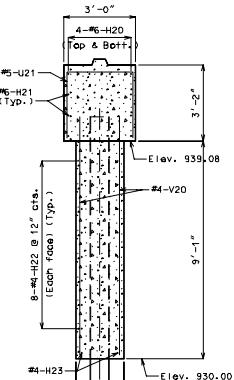
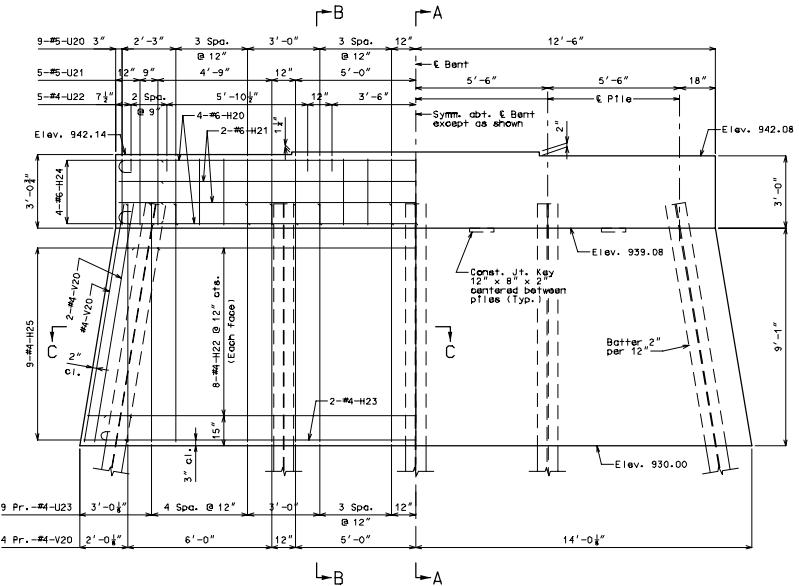
**Subject:** Practical Design Initiative  
Intermediate encased pile cap bents

A designer may consider the use of encased pile cap bents for intermediate bents as shown in the attached example.

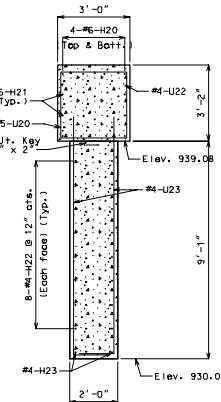
Encased pile cap bents could prove to be an economical structurally desired bent for the following conditions:

- The encasement would be beneficial at locations where drift is a concern.
- The encasement would also assist in providing a larger radius of gyration and therefore a decrease in buckling potential for locations where the exposed unbraced column length is large.

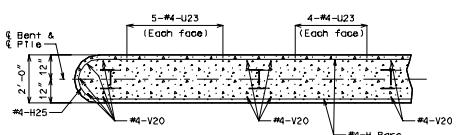
If this type of intermediate bent is being considered, the structural project manager or structural liaison engineer should be consulted regarding battering of piles and other details of the proposed installation.



SECTION A-A



SECTION B-B



SECTION C-C

Notes: For details of Intermediate Bent No. 2 not shown,  
see Sheet No. 8.

For Substructure Quantity Table for Bent No. 2,  
see Sheet No. 8.

### DETAILS OF INTERMEDIATE BENT NO. 2